County Route From		То		ance Miles)		ance Miles)	HOT Cost	HOT Cost (millions)		Comments			
County	Route		WB	EB	SB	NB	Estimated Upgrade Costs (See Note 1)	Estimated Upgrade Costs (See Note 1)					
CC SR4 SR 160 Port Chicago Highway				15.4			\$ 108,980,150			0% Medium and 50% High Cost Option: Soundwall to outside makes widening difficult.			
otal Corri	idor SR4		15.3	15.4			\$ 108,980,150	\$ 108.	.98				
CC	Carquinez Bridge	Central Ave (Alameda County Line)	16.0	14.6			\$ 134,851,217	¢ 13/	85 Hi	igh Cost Option: Total median width about 6' throughout the corridor (2' either side pluss 2' median barrier). Approx. 10 bridge			
ALA	I-80 Central Ave (Alameda County Line)	Bay Bridge Toll Plaza	5.9				\$ 52,442,140			tructures.			
		•											
SOL	I-80 Air Base Pkwy IC	SR 12	6.6				\$ 35,813,994			ledium Cost Option			
otal Corri	idor I-80		28.5	27.3			\$ 223,107,350	\$ 223.	11				
		Paseo Padre/Thornton incl. Toll Plaza							+				
ALA	SR 84 Newark Blvd	Dumbarton Bridge	3.5				\$ 15,424,159			igh Cost Option: PSR describes only 1 mile of HOV widening with possible ROW take. No specific plan details.			
otal Corri	idor SR 84		3.5				\$ 15,424,159	\$ 15.	42				
									- M	ledium Cost Option: North of I-280 (approx 5 miles). 50% Low Cot Option and 50% Medium Cost Option south of I-280.			
sc	SR 85 US 101 (South San Jose)	US 101 (Mountain View)			26.5	26.3	\$ 119,892,648	\$ 119.		tandard outside and inside shoulders			
	idor SR 85				26.5								
									<u> </u>	au Cont Online Construction cost for the VTA LIOV comment on this words (7 miles) was 600 Million Liver (7 miles)			
sc	SR 87 US 101	SR 85			9.1	9.2	\$ 29,967,402	\$ 20		ow Cost Option: Construction cost for the VTA HOV segment on this route (7 miles) was \$68 Million. Input from VTA suggests usin low range cost to convert to HOT lane.			
	idor SR 87	31.03			9.1					iow range cost to convert to FIOT lane.			
ALA	SR 92 Hesperian	Toll Plaza - San Mateo Bridge	1.6				\$ 7,051,044			igh Cost Option			
otal Corri	idor SR 92		1.6				\$ 7,051,044	\$ 7.	.05				
SM	US 101 Whipple Ave	San Mateo/Santa Clara County Line			7.0	7.0	\$ 61,696,635	\$ 61.	.70 Hi	igh Cost Option			
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		+	-3·			
SC	US 101 San Mateo/Santa Clara County Line	Cochrane			35.0	34.0	\$ 145,978,658	\$ 145.		5% segment is Low Cost Option (South of San Jose to Cochrane) and 25% of segment is equally split between High and ledium Cost Option: From San Jose to north			
MAR	US 101 SB 101/Seminary Ave & NB 101/SR1	SR 37			13.8	14.9	\$ 82,010,454	\$ 82.	01 2!	25% Low and 50 % Medium Cost Option: Novato, 25% High Cost Option: Southern Marin			
1717 (1 (ee to tell eb to heartmany two a trainers.	O.C.O.			10.0	1 1.0	Ψ 02,010,101	Ψ 02.	<u></u>	20% LOW and 30 % mediani Cost Option. Novalo, 20% riigii Cost Option. Costalom Maini			
SON	US 101 Old Redwood Highway (Petaluma)	Windsor River Rd			21.7					ledium Cost Option: Santa Rosa.			
otal Corri	idor US 101				77.5	77.1	\$ 405,206,075	\$ 405.	.21				
									Hi	igh Cost Option: Outside shoulders 12'. Median shoulders vary from areas with 6' median shoulder to 10' -12'. Highway segment			
										icludes 11 bridge structures			
	SR 237 I-880	Mathilda I/C	7.0	7.0			\$ 61,696,635	\$ 61.					
otal Corri	idor SR 237		7.0	7.0			\$ 61,696,635	\$ 61.	70				
SC	I-280 Magdelena Ave	Leland Ave			11.5	11.1	\$ 60,856,862	\$ 60	86 M	ledium Cost Option			
	idor SR I-280					11.1							
									工				
ALA	I-580 Hacienda	Greenville		10.8			\$ 29,082,040			ledium Cost Option: Widen to outside			
otal Corri	idor I-580			10.8			\$ 29,082,040	\$ 29.	08				
SC	I-680 Caleveras	Alameda/Santa Clara County Line			2.5	2.5	\$ 12,981,954	\$ 12.	.98 M ¢	ledium Cost Option: NB direction. Cost of SB HOT lane from I-680 Smart Carpool Project (2.5 mill/lane mile)			
ALA	I-680 Alameda/Santa Clara County Line	SR 84			11.5	10.8	\$ 57,832,040	\$ 57.	.83 M €	ledium Cost Option: NB direction. Cost of SB HOT lane from I-680 Smart Carpool Project (2.5 mill/lane mile)			
CC	I-680 Marina Vista	Alcosta Blvd.			26.0	22.3	\$ 130,061,347	\$ 130	06 M	ledium Cost Option			
otal Corri	l l					35.6							
ALA	I-880 Marina	SR 237			25.0	22.9	\$ 128,984,235	\$ 128.	.98 M €	ledium Cost Option			
ALA	I-880 16 th Street	Merge with I-80 W				1.8	\$ 6,389,716	\$ 6	39 50	0 % Medium to 50 % High Cost Option; Appears that median shoulder widen for future lane and shid.			
	idor I-880				25.0	24.7				7			
ub-Total	Lane Miles and Total Cost		55.9	60.5	189.6		\$ 1,397,513,658	\$ 1,397	'.51				
Total Lane Miles all Directions					0.0		\$ 2,852,069	\$2.9 M/n	nile				

HOT upgrade cost may be a combination of the different costing options (low, medium, high) or one option is chosen due to

Note 1:

	ATTACHMENT C - HOT NETWORK SEGMENTS ADDED 2015 and 2030 CONSTRUCTION COSTS													
		e (Lane Distance (Lan		Tota	I Lane Miles	<u> </u>	HOV Lanes Added in HOT Cost		Total HOT Cos	t II				
County	Route	From	То		iles) Added Miles) Added		OT Lane Network (2030 Network	(millions)	and HOV Cost		
				wв	EB SB NB	WB	EB	SB	NB	Cost /Lane Mile (1) \$ 8.00	Estimated Upgrade Costs	(in Millions)		
									ND	,	opgrade costs		50% Medium and 50% High Cost Option: Soundwall to outside makes widening difficult. Used \$ 9.9 million per lane mile for HOV estimate based on PSRs	
CC	SR4	Port Chicago Highway HOV Connector Facility	I-680	4.1	3.7	19.4	19.1			\$ 77.22 \$ 75.00	\$ 27.69 \$ -		available for the corridor. No cost to convert HOV connector to HOT lane due to no additional ITS elements or striping requirements	
Total Corri		io Tiov Connector Lacinty		4.1	3.7	19.4	19.1			\$ 152.22	\$ 27.69			
		Pomona/San Pablo thru IC and to Cummings (Carquinez												
ALA/CC	I-80	Bridge)	Bay Bridge Toll Plaza			21.9	20.6							
001	1.00	Yolo County Line	SR 37	32.7	00.5	32.7	32.5			6 504.00			50% Low and 50% Medium Cost Option: Outside shoulder widths vary (10'-13') and the median shoulder width varies from 20' (south of SR 37) to 30' (north of Vallejo). 7 bridge structures (No	
SOL	I-80	Tolo County Line	ON 37	32.1	32.5	32.7	32.5			\$ 521.60	\$ 141.17	\$ 662.7	7 PSR)	
SOL	I-80	SR 37	Carquinez Bridge	4.6	4.6	4.6	4.6			\$ 73.60	\$ 24.77	\$ 98.3	Medium Cost Option: PSR shows \$48 mill. Need to be confirmed HOV widening assumed to be funded in Transportation 2030 Plan	
SOL	I-80	Air Base Pkwy IC	Suisun Valley Rd/I-680			6.6	6.7							
Total Corri	dor I-80	1	1	37.3	37.1	65.8	64.4			\$ 595	\$ 166	\$ 76	1	
ALA	SR 84	I-880/Newark Blvd	Paseo Padre/Thornton incl. Toll Plaza Dumbarton Bridge			3.5								
Total Corri			Paseo Padre/ Momitor Inci. 1011 Plaza Dumbarton Bridge			3.5								
SC	SR 85		Moffett US 101					26.4	26.1					
Total Corri								26.4						
SC Total Corri	SR 87		Capitol Expwy SR 85					9.1 9.1	9.2 9.2					
ALA	SR 92		Toll Plaza - San Mateo Bridge			1.6		9.1	3.2					
Total Corri			Troit riaza - Sait mateo bridge			1.6								
SM	US 101	Millbrae Ave	Whipple Ave		11.4 11.7			11.4	11.7	\$ 184.80	\$ 101.80	\$ 286.6	High Cost Option, No PSR	
SC	US 101	Cochrane	SR 25		14.9 14.6			56.9	55.6	\$ 182.90	\$ 48.31	\$ 231.2	Low Cost Option, HOV Costs based on VTP 2030, Approx. 6.2 million/lane mile	
l		0007	Out Associa B.I.										Medium Cost Option for HOT conversion. HOV cost is 17.32 mill/lane mile based on estimate from the Marin/Sonoma Narrows project provided to MTC.	
MAR	US 101	SR37	San Antonio Rd		9.7 9.4					\$ 285.19	\$ 51.43	\$ 336.6	2 HOV widening assumed funded in Transportation 2030 Plan	
													Medium Option for HOT conversion. HOV cost is 17.32 mill/lane mile based on estimate from the Marin/Sonoma Narrows project provided to MTC.	
	US 101		Old Redwood Highway (Petaluma)		7.8 7.6			53.0	53.1	\$ 229.95	\$ 41.47		2 HOV widening assumed funded in Transportation 2030 Plan	
Total Corri	dor US 10	D1			43.8 43.3			121.3	120.4	\$ 882.84	\$ 243.01	\$ 1,125.8		
													High Cost Option: Outside shoulders 12'. Median shoulders vary from areas with 6' median shoulder to 10' -12'. Highway segment includes 11 bridge structures	
SC	SR 237		SR 85	2.7	2.9	9.7	9.9			\$ 44.80	\$ 24.68		B HOV widening from Mathilda to SR 85 assumed funded in Transportation 2030 Plan	
Total Corri				2.7	2.9	9.7	9.9			\$44.80	\$ 24.68			
SC Total Corri	I-280	Leland Ave	US 101		3.5 4.2 3.5 4.2			15.0 15.0	15.3 15.3	\$ - \$ -	\$ 20.73 \$ 20.73		Medium Cost Option, No PSR	
Total Com	uoi 1-200	+			3.5 4.2			13.0	13.3	-	\$ 20.73	\$ 20.73	Medium Cost Option;PSR for part of segment shows \$10 mil/HOV lane mi	
ALA	I-580	Greenville	San Joaquin County Line		10.2					\$ 102.00	\$ 27.47	\$ 129.4	WB HOV from Greenville to Tassajara assumed funded in Transportation 2030 Plan	
													Medium Cost Option;PSR for part of segment shows \$10 mil/HOV lane mi	
ALA	I-580	San Joaquin County Line	I-680	20.9		20.9	21.0			\$ 107.30	\$ 56.28	\$ 163.5	B WB HOV from Greenville to Tassajara assumed funded in Transportation 2030 Plan	
ALA	1 500/1 60	Connector Facility								\$ 325.00	¢.	¢ 335.0	No cost to convert HOV connector to HOT lane due to no additional ITS elements or striping requirements. Note that the connector cost comes from a preliminary cost estimate and is subject to change.	
Total Corri		Connector Facility	I	20.9	40.0	20.0	24.0			\$ 534.30	ф -			
ALA	l-680	SR 84	Calveras/SR 237	20.9	10.2	20.9	21.0	14.0	13.3	ə 534.30	\$ 83.75	\$ 618.0		
SC	I-680		US 101		9.0 9.0	+		9.0	9.0	\$ -	\$ 48.47	\$ 40.4	7 Medium Cost Option	
		Alcosta Blvd	SR 84		10.6 10.5			10.6	10.5	\$ 137.15	\$ 56.82		7 Medium Cost Option, HOV estimate for portion of NB 680 equal to 6.5 million/lane mile \$2006	
ALA	I-680/80		011 07		10.6 10.5	+		10.6	10.5	No cost available		φ 193.9	No cost to convert HOV connector to HOT lane due to no additional ITS elements or striping requirements	
CC			Alcosta Blvd.		10 00	+		27.0	25.0			6 510	No cost to convert Hov connector to HOT lane due to no additional HS elements or striping requirements Medium Cost Option, No PSR	
CC	I-680	` ,	I-780		1.2 3.6 12.4 12.3	+		27.2 12.4		\$ 38.40 \$ 197.60	\$ 12.93 \$ 66.51		Medium Cost Option Medium Cost Option	
SOL Total Corri	I-680 dor I-680		JE700		12.4 12.3 33.2 35.4				12.3 71.0				·	
												1		
ALA	I-880	98th Ave	Marina (SB) and Lewellling (NB)		3.3 4.3				<u> </u>	\$ 26.00	\$ 20.33	\$ 46.3	Medium Cost Option, No PSR	
												1		
sc	I-880	SR 237	US 101		3.3 4.3			31.5	31.5	¢	\$ 20.33	\$ 20.3	3 Medium Cost Option, No PSR	
ALA	I-880	I-880 SFOBB approach prior to off ramp to I-80 E	I-880 SFOBB approach prior to merge with I-80 W		3.3 4.3	+		31.3	1.8		ψ 20.33	φ 20.3	inequality cost opinori, no for	
Total Corri		i coo oi obb approach phoi to on famp to Poo E	Ti soo or opp approach phor to merge with 100 W		6.5 8.6			31.5	33.3	\$ 26.00	\$ 40.66	\$ 66.6	6	
Sub-Total				65.0	53.9 87.0 91.5	120.9	114.4	276.5		\$ 2,609	\$ 791	\$ 3,40		
Total Lane	Total Lane Miles all Directions/Total Upgrade Cost				297.4	1		787.1		\$ 11.43	\$ 3,400	Ī		

Note 1: Use \$ 8 million per lane mile if no PSR is available

Note 2: HOT upgrade cost may be a combination of the different costing options (low, medium, high) or one option is chosen due to specific information available.

ATTACHMEN'	T D: 2030 CONNECTED NETWORK	(2015 Network Plus Segments Adde	ed Thro	ough 2	2030) (CONSTRUCTION						
	Total Lane Miles			HOT Upgrade Total HOT Cost								
County Route	From	То	н	-		ne Miles ork (2015+2030)			Total HOT Cost and HOV Cost	Comments		
Touris						(201012000)	Esti	mated		Communic		
			WB	ЕВ	SB	NB		de Costs 2)	(in Millions)			
CC SR4		I-680	19.4			ND	\$	136.67	\$ 213.89	Medium to High Cost Option: Soundwall to outside makes widening difficult.		
CC SR 4/I-68(Total Corridor SR	HOV Connector Facility		10 /	19.1			\$	136.67	\$ 75.00 \$ 288.89	No cost to convert HOV connector to HOT lane due to no additional ITS elements or striping requirements		
							Ψ					
CC I-80	Carquinez Bridge	Central Ave (Alameda County Line)	16.0	14.6			\$	134.85	\$ 134.85	High Cost Option: Total median width about 6' throughout the corridor (2' either side pluss 2' median barrier). Approx. 10 bridge structures.		
ALA I-80	Central Ave (Alameda County Line)	Bay Bridge Toll Plaza	5.9	6.0			\$	52.44	\$ 52.44	High Cost Option: Total median width about 6' throughout the corridor (2' either side pluss 2' median barrier). Approx. 10 bridge structures.		
SOL I-80	Yolo County Line	SR 37	32.7	32.5			\$	141.17	\$ 662.77	Low and Medium Cost Option: Outside shoulder widths vary (10'-13') and the median shoulder width varies from 20' (south of SR 37) to 30' (north of Vallejo). 7 bridge structures		
			-	-			Ť		* ****			
SOL I-80	SR 37	Carquinez Bridge	4.6	4.6			\$	24.77	\$ 98.37	Medium Cost Option HOV widening assumed to be funded in Transportation 2030 Plan		
Total Corridor I-80	Air Base Pkwy IC	Suisun Valley Rd/l-680	6.6 65.8				\$	35.81 389.05	\$ 35.81 \$ 984.25	Medium Cost Option		
		Paseo Padre/Thornton incl. Toll Plaza Dumbarton										
ALA SR 84	Newark Blvd	Bridge	3.5				\$	15.42		High Cost Option: PSR describes only 1 mile of HOV widening with possible ROW take. No specific plan details.		
Total Corridor SR	84		3.5				\$	15.42	\$ 15.42			
	US 101 (South San Jose)	US 101 (Mountain View)			26.5	26.3	\$	119.89		Medium Cost Option: North of I-280 (approx 7 miles). Low Cost Option and Medium Cost Option south of I-280. Standard outside and inside shoulders		
Total Corridor SR	85				26.5	26.3	\$	119.89	\$ 119.89			
SC SR 87 Total Corridor SR		SR 85			9.1 9.1	9.2 9.2	\$ \$	29.97 29.97	\$ 29.97 \$ 29.97	Low Cost Option: Construction cost for the VTA HOV segment on this route (7 miles) was \$68 Million. Input from VTA suggests using a low range cost to convert to HOT lane.		
						3.2			•			
ALA SR 92 Total Corridor SR		Toll Plaza - San Mateo Bridge	1.6				\$ \$	7.05 7.05	\$ 7.05 \$ 7.05	High Cost Option		
		White I. A			44.4	44.7						
SM US 101	MIIIDrae Ave	Whipple Ave			11.4	11.7	\$	101.80	\$ 286.60	High Cost Option: Soundwalls to outside and minimal median shoulder.		
SM US 101	Whipple Ave	San Mateo/Santa Clara County Line			7.0	7.0	\$	61.70	\$ 61.70	High Cost Option: Soundwalls to outside and minimal median shoulder.		
SC US 101	San Mateo/Santa Clara County Line	SR 25			49.9	48.6	\$	194.29	\$ 377.19	Low Cost Option: South of San Jose to Cochrane, High & Medium Cost Option: From San Jose to north		
MAR US 101	SB 101/Seminary Ave & NB 101/SR1	San Antonio Rd			24.0	24.0	\$	133.44	\$ 418.63	Low and Medium Cost Option: Novato, High Cost Option: Southern Marin. HOV widening from Petaluma to Novato assumed funded in Transporation 2030 Plan		
	•						Ψ	Î				
SON US 101 Total Corridor US		Windsor River Rd			29.0 121.3	29.1 120.4	\$ \$	156.99 648.21	\$ 386.94 \$ 1,531.05	Medium Cost Option		
						-			,			
SC SR 237	I-880	SR 85	9.7	9.9			\$	86.38	\$ 131.18	High Cost Option: Outside shoulders 12'. Median shoulders vary from areas with 6' median shoulder to 10' -12'. Highway segment includes 11 bridge structures HOV widening from Mathilda to SR 85 assumed funded in Transportation 2030 Plan		
Total Corridor SR	237		9.7	9.9			\$	86.38	\$ 131.18			
SC I-280		US 101			15.0	15.3	\$	81.59		Medium Cost Option		
Total Corridor I-28	0				15.0	15.3	\$	81.59	\$ 81.59			
ALA I-580/680	HOV Connector						\$	-	\$ 325.00	No cost to convert HOV connector to HOT lane due to no additional ITS elements or striping requirements		
ALA I-580	San Joaquin County Line	I-680	20.9	21.0			\$	112.83	\$ 322.13	Medium Cost Option: Roadway median already widen for future lane and shoulder. WB HOV from Greenville to Tassajara assumed funded in Transportation 2030 Plan		
Total Corridor I-58		I	20.9				\$	112.83	\$ 647.13			
SC I-680	Caleveras	US 101			9.0	9.0	\$	48.47	\$ 48.47	Medium Cost Option		
SC I-680	Alameda/Santa Clara County Line	Caleveras		-	2.5	2.5	\$	12.98	\$ 12.00	Medium Cost Option		
	·						Ψ .	Î		modum ood option		
ALA I-680	SR 84	Alameda/Santa Clara County Line			11.5	10.8	\$	57.83	\$ 57.83			
ALA I-680	Alcosta	SR 84			10.6	10.5	\$	56.82	\$ 193.97	Medium Cost Option		
CC I-680/80	HOV Connector									No cost to convert HOV connector to HOT lane due to no additional ITS elements or striping requirements		
		Alcosto Plud			27.0	25.0	φ	140.00	£ 404.00			
CC I-680		Alcosta Blvd.			27.2	25.9	Ф	142.99		Medium Cost Option		
SOL I-680 Total Corridor I-68		I-780			12.4 73.2	12.3 71.0	\$	66.51 385.60	\$ 264.11 \$ 758.75	Medium Cost Option: Standard outside shoulders with median shoulders varying from 10'-20'.		
							φ					
ALA I-880	98th Ave	Marina (SB) and Lewellling (NB)			28.3	27.2	\$	149.31	\$ 175.31	Medium Cost Option		
SC I-880	SR 237	US 101			3.3	4.3	\$	20.33	\$ 20.33	Medium Cost Option		
ALA I-880	16th Street	Merge with I-80 W				1.8	\$	6.39	\$ 639	Medium and High Cost Option; Appears that median shoulder will be widened for future lane and shid.		
Total Corridor I-88	0				31.5	33.3	\$	176.03	\$ 202.03	The state of the s		
	les and Total Cost Il Directions/Total Upgrade Costs including 20		120.9	114.4	276.6 787		\$	2,189 4,797	\$ 4,797			
TOTAL LATTE WITES 2	in phrections/rotal opyrade costs including 20	JUI 10 #	L		101		φ	4,131				

Note 1: Use \$8 million per lane mile if no PSR is available

Note 2: HOT upgrade cost may be a combination of the different costing options (low, medium, high) or one option is chosen due to specific information available.

Attachment E: Bay Are HOT Network Phasing Plan - Corridor Opening Sequence

Opening											
Year	I-680 G		SC/SM Gr		I-80 Gro		Marin-Soi	,	I-880 Corridor Comment		
	<u>Corridor</u> Calveras Note this includes: (a) ALA-	Comment		Comment Begins HOT lane operation	Corridor	Comment	<u>Corridor</u>	Comment	Corridor	Comment	
	680 SB SR 84 to ALA/SCL County line	Begins HOT lane operation with		with HOV requirement at 2+;							
	and (b) SCL-680 SB ALA/SCL County line to Calaveras.	HOV requirement at 2+; HOV	CD 05 CC	HOV requirement increases to 3+ in 2020							
 	line to Calaveras.	requirement increases to 3+ in 2035	SK 85 SC	Begins HOT lane operation							
By 2015 for		Begins HOT lane operation with		with HOV requirement at 2+;							
demo projects		HOV requirement at 2+; HOV	SR 101 SC from San Mateo/Santa	HOV occupancy increases to 3+ in 2035							
projects	Greenville	requirement increases to 3+ in 2035	Clara Co line to Cochrane	3+ 111 2033		Begins HOT lane operation at				Begins HOT lane operation	
						3+ and stays at 3+ (test in 2nd				with HOV requirement at 2+;	
					I-80 ALA Central Ave (ALA Co line) to Bay Bridge Toll Plaza	scenario even though lane appears full)			SR 84 (bridge approach)	HOV requirement increases to 3+ in 2025	
Ħ					Day Bridge For Flaza	appears rany			ert er (errage appreaerr)	01 111 2020	
				Begins HOT lane operation		Begins HOT lane operation at				Begins HOT lane operation	
				with HOV requirement at 2+;	L SO CC Cornelinas Bridge to Control	3+ and stays at 3+ (test in 2nd				at HOV requirement of 2+; HOV lane requirement	
			SR 87 from US 101 to SR 85	3+ in 2040	I-80 CC Carquinez Bridge to Central Ave (ALA Co line)	scenario even though lane appears full)			SR 92 (bridge approach)	stays at 2+	
				Begins HOT lane operation	,	,			, , ,		
				with HOV requirement at 2+; HOV requirement increases to					I-880 ALA 16th St to merge with I-80	Begins HOT lane operation at	
			SR 237 I-880 to Mathilda	3+ in 2035					W	3+ and stays at 3+	
Ī	Calaveras. Note this includes: (a) ALA-			Begins HOT lane operation		Begins HOT lane function at				Begins HOT lane function at	
		Begins HOT lane operation with		with HOV requirement at 2+;		HOV occupancy of 2+ and HOV				HOV occupancy of 2+ and	
2015	line to Calaveras.	HOV requirement at 2+; HOV requirement increases to 3+ in 2035	I-880 SC from SR 237 to US 101	HOV occupancy increases to 3+ in 2030	SR 12	occupancy increases to 3+ in 2040			I-880 ALA/SC Marina to SR 237	HOV occupancy increases to 3+ in 2025	
		·				HOV occupancy of 2+ with HOV					
		Begins HOT lane operation with		Begins HOT lane at HOV requirement of 2+ and HOV		occupancy increase at Carquinez bridge; HOV				Begins HOT lane function at HOV occupancy of 2+ and	
		HOV requirement at 2+; HOV		requirement goes to 3+ in	I-80 SOL thru Vallejo (Carquinez	occupancy requirement				HOV occupancy increases to	
	Chicago Highway	requirement increases to 3+ in 2040	SR 237 SC Mathilda to SR 85	2035	Bridge through SR37)	increases to 3+ in 2040			I-880 ALA 98th to Marina/Lewelling	3+ in 2025	
	I-680 CC from Benicia Bridge to Alcosta. Includes segments described										
	as: Marina Vista to Alcosta (in E&F),										
	N/O Waterfront (Benicia Bridge) to Alcosta (Connected Network); and NB	Pagina HOT land aparation when		Begins HOT lane function with HOV lane at 2+ and HOV goes							
		Begins HOT lane operation when HOV lane requirement increases to		to 3+ at 2035 due to SC 101							
		3+ in 2020	US 101 SM Whipple to County Line	segment							
		Begins HOT lane operation with HOV requirement at 2+; HOV	I-280 SC from Magdalena to Leland	Begins operation with HOV lane at 2+ and HOV goes to 3+							
		requirement increases to 3+ in 2035	_	at 2035							
		Begins HOT lane operation with									
	I-580 ALA EB Greenville to SJ Co	HOV requirement at 2+; HOV requirement increases to 3+ in 2035									
		Begins HOT lane operation with	,								
	SR 4 CC from Port Chicago Hwy to I-										
		requirement increases to 3+ in 2040									
	SR4/I-680 CC HOV Connector Facility	HOV requirement at 3+ due to									
		adjoining segment of I-680 being at									
H	I-580/I-680 ALA Connector	JT									
2020	- COLI GO ALA COMINGIO										
				Begins operation with HOV		Begins HOT lane operation with HOV requirement at 2+; HOV					
		Begins HOT Lane operation with		lane at 2+ and HOV stays at	I-80 SOL from SR 37 to SR 12 and	requirement increases to 3+ in	•	Begins HOT lane operation with			
	I-680 SOL from I-80 to I-780	HOV lane requirement at 2+	US 101 SC Cochrane to SR 25	2+	from Airbase Parkway to Yolo Co line	2040	NB 101/SR 1 to SR 37	HOV requirement at 3+			
				Begins HOT lane at HOV				Begins HOT lane operation with			
				requirement of 2+ and HOV requirement goes to 3+ in			US 101 Marin SR 37 to San Antonio	HOV requirement at 3+ (5 years earlier than the HOV volumes			
	I-680/I-80 SOL Connector		US 101 SM Whipple to Millbrae	2040			Road	would suggest going to 3+) Begins HOT lane operation with			
				Begins HOT lane at HOV requirement of 2+ and HOV				Begins HOT lane operation with HOV requirement at 3+ (5 years			
				requirement goes to 3+ in			US 101 Sonoma San Antonio Road to	earlier than the HOV volumes			
			I-680 Calaveras to US 101	2035			Old Redwood Highway	would suggest going to 3+)			
				Begins operation with HOV lane at 2+ and HOV goes to 3+			US 101 Sonoma Old Redwood Hwy	Begins HOT lane operation with			
2025			I-280 SC from Leland to US 101	at 2035			to Windsor River Rd	HOV requirement at 3+			
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